

DLOC Precursor IC 5.3: Practice Exercise #3

Directions: Choose the lettered answer that best completes the question. There is only one correct answer for each question unless indicated otherwise.

1. The R_{\max} is _____ related to the PRF and the V_{\max} is _____ related to the PRF.

- a. directly, inversely
- b. directly, directly
- c. inversely, inversely
- d. inversely, directly

2. A WSR-88D radar is operating with a PRF of 1200 pulses per second and a target is **actually** located 70 nm from the radar. The R_{\max} is _____ nm and the target _____ be range-folded to an apparent range.

$$R_{\max} = \frac{c}{2\text{PRF}}$$

- a. 68, will
- b. 68, will not
- c. 125, will
- d. 125, will not

3. A WSR-88D radar is operating with a PRF of 800 pulses per second and a wavelength of 11.0 cm. The R_{\max} is _____ nm and the V_{\max} is _____ kts.

$$R_{\max} = \frac{c}{2\text{PRF}} \quad V_{\max} = \frac{\lambda \text{PRF}}{4}$$

- a. 101, 22
- b. 101, 43
- c. 188, 22
- d. 188, 43